

ABSTRACT OF THE INVENTION

A real, physical radiation phantom for simulating a portion of a human being includes a body portion providing an analytic outer shape of the phantom, the outer shape 5 being similar to a shape of at least a portion of the human being, the body portion having a first physical characteristic of a first value similar to a second value of the first physical characteristic corresponding to human soft tissue, and at least one internal component disposed in the body, the internal component having an analytic shape approximating an internal portion of human anatomy and having a third value of the first physical 10 characteristic different from the first value.

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